



APPLICATIONS

- Sports facilities (stadium, football field, golf course....)\
- Traffic arteries (airport, crossroad....)
- Advertisement (wall, billboard....)

SPECIFICATION

Input Voltage:	100 ~ 277Vac
Input Frequency:	50 / 60Hz
Power Factor:	0.95
Surge Protection Level:	10kV line-earth
Working Environment:	-40°C~ +50°C, 10% ~ 90% RH
CCT:	3000K-5700K
CRI:	≥70
Housing	Extrusion, Galvanized
IP Rating of LED Light Engine	IP68
IP Rating of LED Driver:	IP67
Warranty	5 Years Limited
Impact Resistance	IK08

FEATURES

Construction

- Whole structure heating dissipation design with efficient thermal conduction, radiation and convection.
- Unique patented IP68 LED light engines.
- Tool-less onsite replacement of light engines greatly reduces maintenance cost.

Electrical

- Flexible to reach desired power consumption by choosing appropriate light engines.

Optical

- Ergonomic and specialized lighting distributions available for various area lighting.

Installation

- Bracket adjustable within $\pm 180^\circ$.

FINISHING COLORS



BRACKETS COLORS



ORDERING INFORMATION

Example: FL31A-4-200-M31A-CA-63-2360-7040-LU-MO-GY

Luminaire Type	Module Qty	System Power	LED Module	LED Package	Cable Standard	LED Qty per Module
FL Flood light 31A 31A series	1 1 module	40 40W	M31A M31A module	A 3535	A CCC+VDE C PSE H. UL I. Others	18 18pcs
	2 2 modules	50 50W		C 3030		63 63pcs
	3 3 modules	60 60W		B 5050		18 18pcs 28 28pcs
	4 4 modules	200 200W				
	5 5 modules	240 240W 250 250W				

Lens Code	CRI & CCT	Brand of LEDs	Driver Brand	Bracket Color	
1908 12 degree 3725 25 degree 3540 40 degree	3560 60 degree 3590 90 degree	7030 Ra≥70, CCT 3000K 7040 Ra≥70, CCT 4000K 7050 Ra≥70, CCT 5000K 7057 Ra≥70, CCT 5700K	IN INVENTRONIC S MO MOSO PH PHILIPS MW MEAN WELL AD ADAYO XX Others	GY Gray	
1325 25 degree 5340 40 degree 2360 60 degree	5390 90 degree 1310 Lambertian type				LU LUMILEDS CM LUMILEDS Customize d SS SAMSUNG NI NICHIA CR CREE LN LUMINUS XX Others
3125 25 degree 3140 40 degree 3160 60 degree 2190 90 degree 2211 90x40 degree 2310 Lambertian type 3504 80x40 degree 3505 70x30 degree	2114 Type V Short 2040 Type V Short 2501 60x60 degree 2502 80x80 degree 2503 80x50 degree				

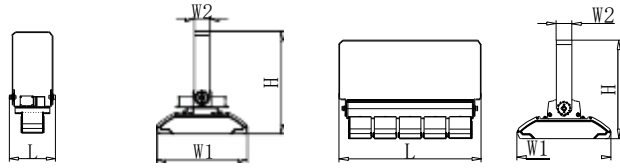
PERFORMANCE

Model	Power (W)	Module M31A-XA-18		Module M31A-XC-63		Module M31A-XB-18		Module M31A-VB-28	
		Efficacy (lm/W)	Flux (lm)	Efficacy (lm/W)	Flux (lm)	Efficacy (lm/W)	Flux (lm)	Efficacy (lm/W)	Flux (lm)
FL31A-1	40	130	5200	135	5400	152	6080	168	6720
	50	122	6100	130	6500	145	7250	163	8150
	60	117	7020	122	7320	133	7980	155	9300
FL31A-2	80	137	10960	140	11200	160	12800	175	14000
	100	130	13000	135	13500	150	15000	170	17000
	120	122	14640	127	15240	140	16800	163	19560
FL31A-3	120	137	16440	140	16800	160	19200	175	21000
	150	130	19500	135	20250	150	22500	170	25500
	180	122	21960	127	22860	140	25200	163	29340
FL31A-4	160	137	21920	140	22400	160	25600	175	28000
	200	130	26000	135	27000	150	30000	170	34000
	240	122	29280	127	30480	140	33600	163	39120
FL31A-5	200	137	27400	140	28000	160	32000	175	35000
	250	130	32500	135	33750	150	37500	170	42500

Note: 1. Values shown are subject to ±5%~±8% tolerance.
2. Efficacy of Ra70 3000K is 5% lower than that of CCT≥4000K.

PRODUCT DIMENSIONS

MODEL	L (mm)	W1 (mm)	W2 (mm)	H (mm)	N.W. (kg)
FL32A-1	150	300	50	335	2.3
FL32A-2	335	300	50	310	3.9
FL32A-3	335	300	50	310	4.6
FL32A-4	375	300	50	310	5.4
FL32A-5	455	300	50	310	6.4



FL31A-1

FL31A-2/-3/-4/-5

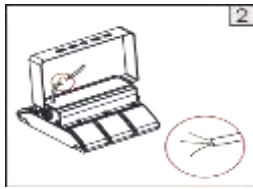
TYPICAL DISTRIBUTIONS

Module M31A-XA					
	12D1908	25D3725	40D3540	60D3560	90D3590
Module M31A-XC					
	25D1325	40D5340	60D2360	90D5390	LBN1310
Module M31A-XB					
	25D3125	40D3140	60D3160	90D2190	90Dx40D2211
Module M31A-XB					
	LBN2310	T5S2114	T5S2040		
	60Dx60D2501	80Dx80D2502	80Dx50D2503	80Dx40D3504	70Dx30D3505

INSTALLATION



1. Fix the bracket onto the mounting surface with two screws. (recommend M10 screws)

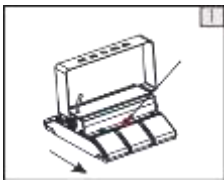


2. Connect the wires to the AC input (make sure it grounded sufficiently).

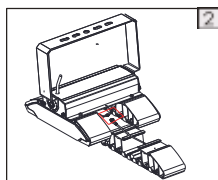


3. Loosen the M8x20 screws and adjust the mounting angle of the bracket, then tighten the screws up.

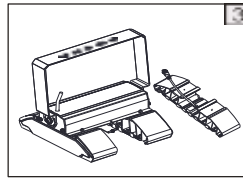
MAINTENANCE



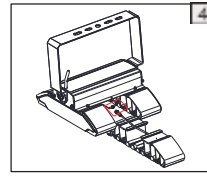
1. Loosen the two M4x12 screws, and slide the module out in the direction of the arrow.



2. Disconnect the failed module from the connectors.



3. Take out the failed module.

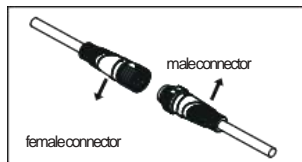


4. Replace the module with a new one, and tighten up the waterproof connectors.

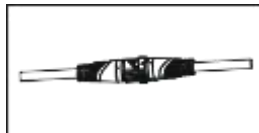


5. Slide the module in the direction of the arrow, fix it into the groove of main beam, and tighten up the two M4x12 screws.

CABLE CONNECTORS



1. Connect the male and female connectors by aligning the indicative arrow on them.



2. Hold the nut on one terminal still, meanwhile, rotating clockwise till the one on the other terminals is tightened up. Otherwise the waterproof performance might be affected.

WIRING

Power Supply End	Earth wire	Neutral wire	Live wire
Fixture End	Yellow-green lead	Blue lead	Brown lead
	Green lead	White lead	Black lead

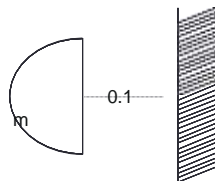
- a.** Disconnect or turn off power before installation, maintenance and wiring.
- b.** Cable connection must be insulated and waterproof.
- c.** The light source should be replaced by the manufacturer, its server agent, or someone similarly qualified.

Warning: Danger! Electric shock risk!

(via IEC 60417-6042 (2011-11))

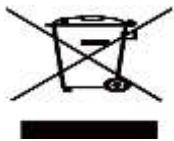


Minimum distance from the light source to the illuminated object: 0.1m.



Cable Connectors

The luminaire shall be installed by a qualified electrician and wired in accordance with the latest IEE electrical regulations or the national requirements.



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling

REMARKS

- 1.This luminaire uses permanent connection on power supply with flexible cable and wires (60245 IEC57). Sufficient length of cable is reserved for connection to AC power. Protection over the connection joint and elimination of tensile force there should be ensured sufficient.
- 2.This luminaire uses type Z attachment: the external flexible cable or cord of this luminaire cannot be replaced; if the cord is damaged, the luminaire shall be destroyed.
- 3.Wiring: the connection to AC power should be operated on terminal blocks in a wiring box with a degree of protection at least equivalent to the luminaire, and there should be devices to fixate wires.
- 4.The luminaire can be mounted onto ordinary combustible surfaces.